Title (en)

CHARGING MATERIAL FOR PRODUCING REFRACTORY HIGH-STRENGTH SPHERICAL GRANULES AND METHOD FOR THE PRODUCTION THEREOF

Title (de)

BESCHICKUNGSMATERIAL ZUR HERSTELLUNG VON FEUERFESTEM HOCHFESTEM KUGELFÖRMIGEM GRANULAT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

CHARGE SERVANT A PRODUIRE DES GRANULES SPHERIQUES REFRACTAIRES DE HAUTE RESISTANCE ET PROCEDE DE PRODUCTION DE CES GRANULES

Publication

EP 1659103 B1 20140709 (EN)

Application

EP 03817493 A 20030508

Priority

RU 0300210 W 20030508

Abstract (en)

[origin: US2006058173A1] The inventive method for producing refractory high-strength spherical granules consists in separately presintering kaolin and bauxite in a rotational furnace, jointly sintering said components in order to produce a charging material, granulating, drying and screening said charging material, sintering said granules in the rotational furnace and screening the sintered granules. Said sintered kaoline is produced by sintering at a temperature ranging from 1400 to 1500 DEG C. so far as a water absorption of 5% is attained for kaoline containing 40-45 mass % and a free quartz in a quantity equal to or greater than 60 mass %. The Al₂O₃:SiO2 ratio in the charging material is equal to 1:1 at the following charging material component ratio: 36-67 mass % sintered kaolin and the rest being sintered bauxite.

IPC 8 full level

C04B 33/04 (2006.01); **C04B 33/32** (2006.01); **C04B 35/18** (2006.01); **C09K 8/80** (2006.01); **C22B 1/216** (2006.01); **E21B 43/267** (2006.01)

IPC 8 main group level

C22B (2006.01)

CPC (source: EP NO US)

C04B 33/04 (2013.01 - EP NO US); **C04B 33/32** (2013.01 - EP US); **C04B 33/36** (2013.01 - EP US); **C04B 35/18** (2013.01 - EP NO US); **C04B 35/6261** (2013.01 - EP US); **C04B 35/6262** (2013.01 - EP US); **C04B 35/62645** (2013.01 - EP US); **C04B 35/62675** (2013.01 - EP US); **C04B 35/62695** (2013.01 - EP US); **C09K 8/80** (2013.01 - EP NO US); **C22B 1/216** (2013.01 - EP US); C04B 2235/3217 (2013.01 - EP US); C04B 2235/3418 (2013.01 - EP US); C04B 2235/528 (2013.01 - EP US); C04B 2235/72 (2013.01 - EP US); C04B 2235/77 (2013.01 - EP US)

Cited by

CN109437688A; CN103044065A

Designated contracting state (EPC)

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DOCDB simple family (publication)

US 2006058173 A1 20060316; **US 7270704 B2 20070918**; CA 2525090 A1 20050303; CA 2525090 C 20090407; EP 1659103 A2 20060524; EP 1659103 A4 20081210; EP 1659103 B1 20140709; NO 20055814 D0 20051207; NO 20055814 L 20051223; NO 338444 B1 20160815; WO 2005019484 A2 20050303; WO 2005019484 A3 20050414

DOCDB simple family (application)

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